

PATENT ABSTRACTS OF JAPAN

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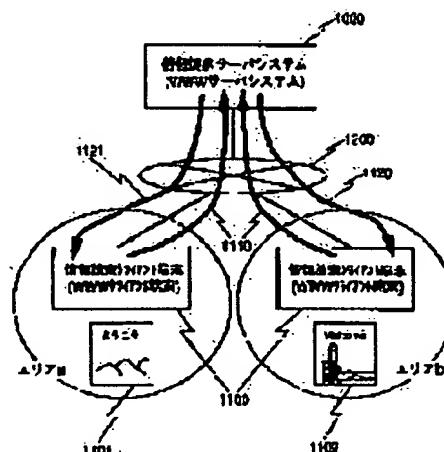
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(54) METHOD AND SYSTEM FOR PROVIDING INFORMATION

(57)Abstract:

PROBLEM TO BE SOLVED: To distribute suitable information contents corresponding to the access place or attribute of a user by distributing the information contents corresponding to an URL of which the information provision site is designated.

SOLUTION: Corresponding to the located place of an information retrieval client terminal 1100 or the attribute information of user of the information retrieval client terminal 1100, the information contents to be provided by an information provision server system 1000 are changed. Namely, corresponding to the same URL transfer request 1100 from the information retrieval client terminal 1100, the information provision server system 1000 transfers 1121 an information contents file corresponding to an area (a) to the information retrieval client terminal 1100 existent in the area (a) and transfers 1120 an information contents file corresponding to an area (b) to the information retrieval client terminal 1100 existent in the area (b). As a result, even in the case of the same URL transfer request, a display picture 1101 in the area (a) and a display picture 1102 in the area (b) are different.



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CLAIMS

[Claim(s)]

[Claim 1]Two or more server apparatus which distribute information content, comprising, An information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A step which is how to provide information content with said server apparatus, and pinpoints a position of said client apparatus which carries out a distribution request to said server apparatus. A step which chooses information content from this position information.

A step which distributes this selected information content to said client apparatus.

[Claim 2]An information service method which is a step which pinpoints a position of said client apparatus in an information service method of claim written 1 statement, and is characterized by having a step which pinpoints a position of said client apparatus from a communication address of said client apparatus.

[Claim 3]Two or more server apparatus which distribute information content, comprising, An information service method in an information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A step which asks position information to a client apparatus which carries out a distribution request to said server apparatus.

A step which receives position information from said client apparatus.

A step which chooses information content from this position information.

A step which has a step which distributes this selected information content to said client apparatus, and detects a position of this device to said client apparatus, and a step which notifies this position information to said server apparatus to an inquiry of position information from said server apparatus.

[Claim 4]Two or more server apparatus which distribute information content, comprising, An information service method in an information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A step which asks attribution information to a client apparatus which carries out a distribution request to said server apparatus.

A step which receives attribution information from said client apparatus.

A step which chooses information content from this attribution information.

A step which has a step which distributes this selected information content to said client apparatus, and notifies attribution information to said client apparatus to an inquiry of attribution information from said server apparatus at said server apparatus.

[Claim 5]Two or more server apparatus which distribute information content, comprising, An information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes

information content according to a distribution request from said client apparatus.
A means to pinpoint a position of said client apparatus which carries out the distribution request of said server apparatus to said server apparatus.
A means to choose information content from this position information.
A means to distribute this selected information content to said client apparatus.

[Claim 6] Two or more server apparatus which distribute information content, comprising, An information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A means to ask position information to a client apparatus which carries out the distribution request of said server apparatus.

A means to receive position information from said client apparatus.

A means to choose information content from this position information.

A means by which it has a means to distribute this selected information content to said client apparatus, and said client apparatus detects a position of this device, and a means to notify position information detected by said position detecting means to a position information inquiry from said server apparatus to said server apparatus.

[Claim 7] Two or more server apparatus which distribute information content, comprising, An information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A means to ask attribution information to a client apparatus which carries out the distribution request of said server apparatus.

A means to receive attribution information from said client apparatus.

A means to choose information content from this attribution information.

A means by which it has a means to distribute this selected information content to said client apparatus, and said client apparatus notifies that said attribution information is a means to memorize attribution information to said server apparatus to an attribute inquiry from said server apparatus.

[Claim 8] An information service system which is the information service system according to claim 7, and is characterized by constituting a means to choose information content from said attribution information from an expert system.

[Claim 9] Two or more server apparatus which distribute information content, comprising, An information service method in an information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A step which asks position information and attribution information to a client apparatus which carries out a distribution request to said server apparatus.

A step which receives position information and attribution information from said client apparatus.

A step which chooses information content from this position information and this attribution information.

A step which has a step which distributes this selected information content to said client apparatus, and detects a position of this device to said client apparatus, and a step which notifies this position information and attribution information to said server apparatus to an inquiry of position information from said server apparatus, and attribution information.

[Claim 10] Two or more server apparatus which distribute information content, comprising, An information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A means to ask position information and attribution information to a client apparatus which carries out the distribution request of said server apparatus.

A SU means to receive position information and attribution information from said client apparatus.
A means to choose information content from this position information and this attribution information.

A means to have a means to distribute this selected information content to said client apparatus, and to detect a position of this device to said client apparatus, A means to notify position information detected by said position detecting means, and said attribution information to memorize to said server apparatus to an inquiry of a means to memorize attribution information, position information from said server apparatus, and attribution information.

[Claim 11]Two or more server apparatus which distribute information content, comprising, An information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A step which is how to provide information content with said server apparatus, and pinpoints a position of said client apparatus which carries out a distribution request to said server apparatus.

A step which chooses information content from this position information.

A step which carries out editing processing of this selected information content.

A step which distributes this information content which ******(ed) to said client apparatus.

[Claim 12]An information service method which is a step which pinpoints a position of said client apparatus in an information service method of claim written 11 statement, and is characterized by having a step which pinpoints a position of said client apparatus from a communication address of said client apparatus.

[Claim 13]Two or more server apparatus which distribute information content, comprising, An information service method in an information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A step which asks position information to a client apparatus which carries out a distribution request to said server apparatus.

A step which receives position information from said client apparatus.

A step which chooses information content from this position information.

A step which carries out editing processing of this selected information content, and a step which has a step which distributes this information content that carried out editing processing to said client apparatus, and detects a position of this device to said client apparatus, A step which notifies this position information to said server apparatus to an inquiry of position information from said server apparatus.

[Claim 14]Two or more server apparatus which distribute information content, comprising, An information service method which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus acquires to an information service system which distributes information content according to a distribution request from said client apparatus.

A step which asks attribution information to a client apparatus which carries out a distribution request to said server apparatus.

A step which receives attribution information from said client apparatus.

A step which chooses information content from this attribution information.

A step which has a step which carries out editing processing of this selected information content, and a step which distributes this information content that carried out editing processing to said client apparatus, and notifies attribution information to said client apparatus to an inquiry of attribution information from said server apparatus at said server apparatus.

[Claim 15]Two or more server apparatus which distribute information content, comprising, An information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A means to pinpoint a position of said client apparatus which carries out the distribution request of said server apparatus to said server apparatus.

A means to choose information content from this position information.

A means which carries out editing processing of this selected information content.

A means to distribute this information content that carried out editing processing to said client apparatus.

[Claim 16] Two or more server apparatus which distribute information content, comprising, An information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A means to ask position information to a client apparatus which carries out the distribution request of said server apparatus.

A means to receive position information from said client apparatus.

A means to choose information content from this position information.

Have a means which carries out editing processing of this selected information content, and a means to distribute this information content that carried out editing processing to said client apparatus, and said client apparatus, A means to detect a position of this device, and a means to notify position information detected by said position detecting means to a position information inquiry from said server apparatus to said server apparatus.

[Claim 17] Two or more server apparatus which distribute information content, comprising, An information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A means to ask attribution information to a client apparatus which carries out the distribution request of said server apparatus.

A means to receive attribution information from said client apparatus.

A means to choose information content from this attribution information.

Have a means which carries out editing processing of this selected information content, and a means to distribute this information content that carried out editing processing to said client apparatus, and said client apparatus, A means to memorize attribution information, and a means to notify said attribution information to said server apparatus to an attribute inquiry from said server apparatus.

[Claim 18] Two or more server apparatus which distribute information content, comprising, An information service method in an information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A step which asks position information and attribution information to a client apparatus which carries out a distribution request to said server apparatus.

A step which receives position information and attribution information from said client apparatus.

A step which chooses information content from this position information and this attribution information.

A step which carries out editing processing of this selected information content, and a step which has a step which distributes this information content that carried out editing processing to said client apparatus, and detects a position of this device to said client apparatus, A step which notifies this position information and attribution information to said server apparatus to an inquiry of position information from said server apparatus, and attribution information.

[Claim 19] Two or more server apparatus which distribute information content, comprising, An information service system for which two or more client apparatus which receive information content take composition connected to a network, and said server apparatus distributes information content according to a distribution request from said client apparatus.

A means to ask position information and attribution information to a client apparatus which carries

out the distribution request of said server apparatus.

A SU means to receive position information and attribution information from said client apparatus.

A means to choose information content from this position information and this attribution information.

A means which carries out editing processing of this selected information content, and a means to have a means to distribute this information content that carried out editing processing to said client apparatus, and to detect a position of this device to said client apparatus, A means to notify position information detected by said position detecting means, and said attribution information to memorize to said server apparatus to an inquiry of a means to memorize attribution information, position information from said server apparatus, and attribution information.

[Claim 20] Two or more server apparatus which distribute software, comprising, A software distribution method in a software distribution system for which two or more client apparatus which receive software take composition connected to a network, and said server apparatus distributes software according to a distribution request from said client apparatus.

A step which asks operation environment of this device to a client apparatus which carries out a distribution request to said server apparatus.

A step which receives operation environment information from said client apparatus.

A step which chooses software from this operation environment information.

A step which has a step which distributes this selected software to said client apparatus, and notifies operation environment information to said client apparatus to an inquiry of operation environment information from said server apparatus at said server apparatus.

[Claim 21] Two or more server apparatus which distribute software, comprising, A software distribution system for which two or more client apparatus which receive software take composition connected to a network, and said server apparatus distributes software according to a distribution request from said client apparatus.

A means to ask operation environment information of this device to a client apparatus which carries out the distribution request of said server apparatus.

A means to receive operation environment information from said client apparatus.

A means to choose information content from this operation environment information.

A means by which it has a means to distribute this selected information content to said client apparatus, and said client apparatus notifies that said operation environment information is a means to memorize operation environment information to said server apparatus to an inquiry of operation environment information from said server apparatus.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention is concerned with the system which carries out an offer of information through an information-and-telecommunications network, and relates to the selection method of the information to provide, and its system.

[0002]

[Description of the Prior Art]The WWW system currently built on the Internet is in the typical system which distributes information to many and unspecified users via an information-and-telecommunications network.

[0003]A WWW system is a system by which a WWW server transmits information content (a text, a picture, a sound, etc.) to a WWW client according to the demand from a WWW client. Since the structure is making hypermedia structure, the user can browse one information content after another distributed on the network. The demand of information content is performed by specifying URL (Uniform Resource Locator) which shows the whereabouts place. Therefore, the information provider can provide many and unspecified users with same information content, if URL of information content stored in the WWW server is opened to a user. In other words, all the users that specify the same URL will get same information content.

[0004]In recent years, the information provided with a WWW system is increasing explosively, and has become a situation difficult for a user acquiring required information. For this reason, a directory service is provided, or a search engine is carried in a WWW server, and the sites which support a user's information retrieval are increasing in number. There is also a site which provides the same information in two or more languages to a user's language problem.

[0005]

[Problem(s) to be Solved by the Invention]Only uniform information can be provided, although a user (access person) will be in the above-mentioned conventional technology where since same information content is provided to the same URL access, and although what kind of attributes (language, liking, etc. which are used every day) the user has.

[0006]Search services, such as a directory service served now, refer for URL in which the information which matches a search condition fundamentally is included, and do not solve the above-mentioned problem.

[0007]The purpose of this invention is in the place which provides the information service method which makes it possible to distribute information content which was suitable according to a user's accessing place and attribute to the same URL access, and its system.

[0008]

[Means for Solving the Problem]Since substance of URL and information content of the above-mentioned problem is the couple 1, an offer-of-information site is at a point which has distributed information content corresponding to specified URL as it is without considering a user's accessing place and attribution information.

[0009]In order to be able to distribute different information content according to an accessing place of a user who is one of the purposes of this invention, A means to detect position information on a user's accessing place, a means to notify detected position information to an offer-of-information site, and a means to choose information content on condition of position information which received a notice are formed. In order to be able to distribute different

information content according to attribution information of a user who is another purpose, a means to memorize a user's attribution information, a means to notify attribution information to an offer-of-information site, and a means to choose information content on condition of attribution information are formed.

[0010]This invention enables it to distribute information content which was suitable according to attribution information of the accessing place and user to the same URL access by the above means.

[0011]

[Embodiment of the Invention]The example of this invention is described using a drawing.

[0012]Drawing 1 is a figure explaining the contents of this invention seen from the user in a WWW (World-WideWeb) system. The WWW system comprises the information retrieval client terminal 1100 which is the offer-of-information server system 1000 and WWW client terminal which are the WWW server systems connected to the network 1200. the information contents file which the offer-of-information server system 1000 received the information-content transfer request 1110 from the information retrieval client terminal 1100, and was demanded -- the transmission 1120 -- it takes 1121. The information retrieval client terminal 1100 displays the information contents file which received. 1101 and 1102 show the example of a screen displayed on the information retrieval client terminal 1100. The information-content demand 1110 is performed by specifying URL (Uniform Resource Locator). URL shows the whereabouts place of information content and comprises a communications protocol, a host name, and a file name. Information content said here ("embodiment of the invention"), The HTML text file of the oneself and others by which the link was stretched from the text file (HTML text) described in hypertext description language HTML (Hyper Text Mark-up Language), or the HTML text, a graphics file, The same thing as information content currently used for the conventional WWW systems, such as a voice file, is pointed out, therefore the structure is also the same and is hypermedia structure.

[0013]This invention is characterized by changing information content which the offer-of-information server system 1000 provides according to the attribution information of the whereabouts place of the information retrieval client terminal 1100, or information retrieval client terminal 1100 user. Now, as shown in drawing 1, it is assumed that the information retrieval client terminal 1100 exists in different local area (the area a, area b). As opposed to the same URL transfer request 1110 from the information retrieval client terminal 1100, The offer-of-information server system 1000 makes the information contents file corresponding to area a the information retrieval client terminal 1100 which exists in the area a transmission 1121, The information contents file corresponding to area b is made the information retrieval client terminal 1100 which exists in the area b transmission 1120. As a result, the display screen [in / in the same URL transfer request / the area a] 1101 will differ from the display screen 1102 in the area b. Although what kind of attribute the user has, uniform information is to be seen wherever a user (access person) may be in, in order to provide same information content to the same URL access conventionally. According to this invention, to the user who is, for example in Japan, an offer of information can be carried out in English to Japanese and the user who is present in the U.S. inside. When it provides merchandise information, the offer of information according to local area, such as adding a user's nearby store information, becomes possible. It becomes possible to provide the information according to various attribution information, such as a user's liking, a date of birth, etc. Since the information-content group has constituted hypermedia structure, the hypermedia structure of an information-content group is also changeable for every user by changing information content for every user. Therefore, the information which it not only can change information content provided to one URL access, but can be hauled in one after another according to hypermedia structure from there is also changeable.

[0014]Hereafter, an example is described in detail using a drawing.

[0015]Drawing 2 to drawing 4 is a drawing explaining a first embodiment. The first example utilizes the logical address (IP address) which specifies a partner with a WWW system at the time of communication between the offer-of-information server system 1000 and the information retrieval client terminal 1100. The offer-of-information server system 1000 is a gestalt which pinpoints a domain and chooses information content from the logical address of the information retrieval client terminal 1100 according to the pinpointed domain and with which the information retrieval client terminal 1100 is provided.

[0016] Drawing 2 is what showed the first whole example system configuration, and takes the composition in which the offer-of-information server system 1000, the information retrieval client terminal 1100, and the domain name server 2100 were connected to the network 1200. The domain name server 2100 is a server which manages the logical address (IP address) and host name (domain name) on the network 1200 in a unified manner. To the inquiry from the computer machine 1000-1100 connected to the network 1200, conversion to a logical address from a host name is carried out, or conversion to a host name from a logical address, etc. are carried out. The offer-of-information server system 1000 in a first embodiment, The information selection processing part 2000, the selection condition table 2010, the offer-of-information treating part 2020, the communication processing part 2030, the information contents file 2040 that stores information content with which the information retrieval client terminal 1100 is provided, the selection condition table 2010. And it constitutes from the storage parts store 2050 which stores the information contents file 2040, and the input output processing section 2060. The information selection processing part 2000 pinpoints the domain of the information retrieval client terminal 1100 which is URL providing request origin, and performs processing which chooses the information contents file 2040 corresponding to the domain concerned. The process flow of this treating part 2000 is later mentioned using drawing 4. The selection condition table 2010 is a table showing the matching information of a domain and the information contents file 2040. The composition of this table 2010 is later mentioned using drawing 3. The offer-of-information treating part 2020 receives the URL providing request from the information retrieval client terminal 1100, or transmits the information contents file 2040 selected by the information selection processing part 2000 to the information retrieval client terminal 1100 of a requiring agency. The process flow of this treating part 2020 is later mentioned using drawing 4, while a relation with other treating parts is shown. The communication processing part 2030 is a portion which performs communications control processing with the information retrieval client terminal 1100 and the domain name server 2100. The storage parts store 2050 performs the access control of the selection condition table 2010 or the information contents file 2040, and data setting of the selection condition table 2010 or the information contents file 2040 is performed via the input output processing section 2060.

[0017] Drawing 3 is a table format figure of the selection condition table 2010. This table 2010 consists of two or more records 3000, and constitutes each record 3000 from the URL storage 3010, the condition value storage 3020, and the file name storage 3030. The URL storage 3010 is a portion which stores URL used as the object which changes the information contents file 2040 with which the information retrieval client terminal 1100 is provided according to a domain. The condition value storage 3020 is a portion which stores the domain which is a selection condition. The file name storage 3030 is a portion which stores the file name of the information contents file 2040 with which the information retrieval client terminal 1100 is provided. The record 3000 in which "default" is stored in the condition value storage 3020 is hereafter made to call it a default record. The default record 3000 is a record for corresponding in the case of values other than the value stored in the condition value storage 3020. It is necessary to set up a default record for every URL which enters.

[0018] The place where the selection condition table 2010 means for an example the contents of a table shown in drawing 3 is explained. "URL-A" from the information retrieval client terminal 1100 When the becoming URL providing request occurs, If the domain of the information retrieval client terminal 1100 of a requiring agency is a "jp domain", a file name the information contents file 2040 which is "FILE-a1", If it is "de domain", "FILE-a2", When it is other domains, it means providing the information retrieval client terminal 1100 with the information contents file 2040 which has "FILE-a3" which is a value of the file name storage 3030 of the default record 3000 in a file name. Data setting to each storages 3010-3020 and 3030 of the selection condition table 2010 is performed via the input output processing section 2060.

[0019] Drawing 4 shows the first whole embodiment process flow centering on the offer-of-information treating part 2000. the URL providing request from the information retrieval client terminal 1100 -- it is (Step 4100) -- the offer-of-information treating part 2020 of the offer-of-information processing server system 1000 receives the logical address and demand URL of the request-origin-information retrieval client terminal 1100 (Step 4200). The offer-of-information treating part 2020 is the following step 4201, and passes the logical address and demand URL of a

requiring agency to the information selection processing part 2000. The information selection processing part 2000 receives a requiring agency logical address and demand URL from the offer-of-information treating part 2020 (Step 4300), and processes Step 4301. It is judged whether Step 4301 searches the URL storage 3010 of the selection condition table 2010, and has an entry of demand URL. Step 4320 is processed when judged with Step 4310 not being entered when judged with being entered at Step 4301. First, the processing step at the time of being judged with being entered at Step 4301 is explained. At Step 4310, the host name of a requiring agency logical address is asked to the domain name server 2100. The domain name server 2100 answers the information selection processing part 2000 in the host name corresponding to a logical address to an inquiry of Step 4310 (Step 4400). The information selection processing part 2000 receives a host name from the domain name server 2100 (Step 4311), and processes Step 4312. The file name of the information contents file 2040 is searched with Step 4312 from the selection condition table 2010 on condition of the domain and demand URL which the asked host name shows. In this step (Step 4312), when the record 3000 corresponding to a search condition (a domain and demand URL) is not able to be detected, let the file name stored in the default record 3000 be search results. The selection condition table 2010 shown in drawing 3 is taken for an example, and it is explained what the processing result of this step (Step 4312) becomes. For example, the domain of the asked host name "jp domain" and demand URL, In "URL-A", to the URL storage 3010 of the selection condition table 2010 "URL-A", "File name "FILE-a1 stored in the file name storage 3030 of the record 3000 in which "jp domain" is stored" becomes the condition value storage 3020 with the search results of this SUTE 3b PU (Step 4312). Since the record 3000 in which the domain of the asked host name agrees in a selection condition when demand URL is "URL-A", "ss domain" and does not exist, File name "FILE-a3" stored in the file name storage 3020 of the default record 3000 in which "URL-A" is stored in the URL storage 3010, and "default" is stored in the condition value storage 3020 becomes search results of this step (Step 4312). The information contents file 2040 of the file name searched with the following step 4313 is passed to the offer-of-information treating part 2020 after step 4312 execution. The above is a series of processing steps at the time of being judged with being entered at Step 4301. When judged with not being entered at Step 4301, the information selection processing part 2000 passes the information contents file 2040 of the file name which demand URL shows to the offer-of-information treating part 2020 (Step 4320). The offer-of-information treating part 2020 receives the information contents file 2040 from the information selection processing part 2000 by Step 4313 or Step 4320 (Step 4202). The received information contents file 2040 is transmitted to the information retrieval client terminal 1100 of a requiring agency (Step 4203). The information retrieval client terminal 1100 receives the information contents file 2040 transmitted from the offer-of-information treating part 2020, and displays a file content (Step 4101).

[0020]In the above, a first embodiment was described using drawing 4 from drawing 2. An example of the usage pattern of this invention in a first embodiment is explained taking the case of the contents of a table shown in drawing 3. An information provider assumes providing merchandise information with the offer-of-information server system 1000. URL of this merchandise information is made into "URL-A". An information provider creates to "FILE-a3" the contents which described to "FILE-a2" the contents which described to "FILE-a1" the contents which described merchandise information in Japanese in German in English, and stores in the offer-of-information server system 1000. When information retrieval client terminal 1100 user accesses this merchandise information according to a first embodiment of this invention, if it is "jp domain", it is Japanese description and "de domain" and it is a domain of German and others, the merchandise information of English description will be seen. Usually, since the affiliation country of "jp domain" expresses Japan and "de domain" expresses Germany, the user can acquire merchandise information in the language used every day. Conversely, if it says from the information provider side, merchandise information can be provided in the language according to the user's access point (specifically [here] country domain). Since the goods to provide can change information content provided for every country when the same goods also differ in the specification for every country by the difference in a power supply situation, a legal system, etc., the user can acquire the merchandise information of specification suitable for the country which belongs. If it is made what also changed the next link destination in information content provided for every country, the information which can be hauled in one after another from there is also changeable. As mentioned

above, according to this invention, the information provider can provide the information on the contents for which it was suitable according to a user's access point, or a description language, and the user can enjoy the information service.

[0021]Next, a second embodiment is described using drawing 8 from drawing 5. A second embodiment is a gestalt which chooses and provides information content based on the position information on the information retrieval client terminal 1100 which connects the position detecting device (GPS) 5200 to the information retrieval client terminal 1100, and is detected with this device 5200. Although the resolution of area specification was a domain level which the domain name server 2100 manages in a first embodiment, according to a second embodiment, finer area specification can be attained and an offer-of-information service level can be raised.

[0022]Drawing 5 shows the second whole embodiment system configuration. The point that the difference with drawing 2 in which a first embodiment was shown changed the composition of the information retrieval client terminal 1100, They are the point of having changed the information stored in the selection condition table 2010, the point of having newly formed the local area mapping table 5300 in the offer-of-information server system 1000, and the point of having changed the process flow of the information selection processing part 2000 by three above-mentioned change. The stored information of the selection condition table 2010 is later mentioned using drawing 6. The process flow of the information selection processing part 2000 is later mentioned using drawing 8. The local area mapping table 5300 newly provided in the offer-of-information server system 1000 is a table which matches the position information detected by the position detecting device 5200, and a local area name. The composition of this table 5300 is later mentioned using drawing 7.

[0023]Hereafter, the composition of the information retrieval client terminal 1100 is explained. The information retrieval client terminal 1100 is constituted from the information retrieval client treating part 5100, the position information notification processing part 5101, and the communication processing part 5102, and the position detecting device (GPS) 5200 is connected to this terminal 1100. The position information notification processing part 5101 performs processing which acquires position information from the position detecting device 5200, and notifies position information to the offer-of-information server system 1000 to an inquiry of the position information from the offer-of-information server system 1000. The information retrieval client treating part 5100 is a treating part which performs the processing capability of the information retrieval client terminal 1100 explained using drawing 2 and drawing 4 according to the first processing, URL is specified and processing which requires transmission of information content of the offer-of-information server system 1000, or receives information content transmitted from the offer-of-information server system 1000, and displays the contents is performed. The communication processing part 5102 performs communications control processing with the offer-of-information server system 1000.

[0024]Drawing 6 shows the composition of the selection condition table 2010, and the composition is the same as the selection condition table 2010 explained using drawing 3 by a first embodiment. In a second embodiment, the information stored in the condition value storage 3020 is a local area name. A local area name is a name which the information selection processing part 2000 specifies based on the position information notified from the information retrieval client terminal 1100. The same information as a first embodiment is stored in other storages 3010-3030. The default record 3000 is set up for every URL entered like a first embodiment.

[0025]The place where the condition selection table 2010 means for an example the contents of a table shown in drawing 6 is explained. "URL-B" from the information retrieval client terminal 1100 When the becoming URL providing request occurs, If the local area name of the information retrieval client terminal 1100 of a requiring agency is "the area a", a file name the information contents file 2040 which is "FILE-b1", If it is "the area b", "FILE-b2", When it is other local area names, it means providing the information retrieval client terminal 1100 with the information contents file 2040 which has "FILE-b3" which is a value of the file name storage 3030 of the default record 3000 in a file name. Data setting to each storages 3010-3020 and 3030 of the selection condition table 2010 is performed from the input output processing section 2060.

[0026]Drawing 7 shows the composition of the local area mapping table 5300 in drawing 5. This table 5300 consists of two or more records 7000, and each record 7000 comprises the position information storage 7010 and the local area name storage 7020. the local area name storage 7020

is a portion which stores the local area name (for example, -- drawing 7 -- an example -- **** -- "the area a" and the "area b") defined arbitrarily. The position information storage 7010 is a portion which stores the position information belonging to the local area name stored in the local area name storage 7020. The position information to store is the position information which the position detecting device 5200 detects, may store a certain position information on one point, and may specify it in the range. Data setting to each storage 7010-7020 of this table 5300 is performed from the input output processing section 2060.

[0027] Drawing 8 shows the second whole embodiment process flow centering on the information selection processing part 2000. The differences with the process flow in a first embodiment shown by drawing 4 are step groups processed when judged with demand URL being entered by the selection condition table 2010 at Step 4301. Specifically, the processing steps 4310-4400, 4311, and 4312 of drawing 4 are changed into the processing steps 8010-8110, 8111, 8020, and 8030 by a second embodiment (drawing 7). Other processing steps are the same process flow as a first embodiment shown by drawing 4. and the contents of processing. Hereafter, the changed process step group is explained.

[0028] If judged with demand URL being entered at the processing step 4301, the information selection processing part 2000 will ask the position information notification processing part 5101 of the information retrieval client terminal 1100 of a requiring agency position information (Step 8010). If the position information inquiry from the information selection processing part 2000 is received, the position information notification processing part 5101, The position information which acquired position information from the position detecting device 5200 (Step 8110), and was acquired to the information selection processing part 2000 of the offer-of-information server system 1000 of inquiry origin is notified (Step 8111). The information selection processing part 2000 searches the local area name to which the position which received position information from the position information informing part 5101, and was received with reference to the local area mapping table 5300 belongs (Step 8020). When an applicable local area name is not able to be searched with this retrieval processing step 8020, let local area name "default" be search results (when the position which is a search condition is not entered by the local area mapping table 5300). After searching a local area name with Step 8020, the file name of the information contents file 2040 is searched from the selection condition table 2010 on condition of the local area name and demand URL which were searched (Step 8030). The selection condition table 2010 shown in drawing 6 is taken for an example, and the example of search results of this step 8030 is explained. For example, when demand URL is "URL-B" and a local area name is "the area b", a selection condition -- a table -- 2010 -- URL -- a storage -- 3010 -- "URL-B" -- a condition value -- a storage -- 3020 -- " -- area -- b -- " -- storing -- having -- **** -- a record -- 3000 -- a file name -- a storage -- 3030 -- storing -- having -- **** -- a file name -- " -- FILE-b -- two -- " -- a book -- a step (Step 8030) -- search results -- becoming . Step 4313 is performed after processing step 8030 execution. The processing step after this step 4313 is the same as the processing step in a first embodiment shown in drawing 4.

[0029] In the above, a second embodiment was described using drawing 8 from drawing 5. An example of the usage pattern of this invention in a second embodiment is explained taking the case of the contents of a table shown in drawing 6 and drawing 7. An information provider assumes providing event information with the offer-of-information server system 1000. everything but event information [-like / / national / event information] -- "the area a" and the "area b" -- it is assumed that there is an original event of the local adhesion in the area. URL of event information is made into "URL-B". An information provider the contents of-like event information [national] to "FILE-b3." In addition to-like event information, the contents which incorporated the "area a" area original event [national] to "FILE-b1." The contents which incorporated the "area b" area original event [national] in addition to-like event information are created to "FILE-b2", and it stores in the offer-of-information server system 1000. When information retrieval client terminal 1100 user accesses this event information according to a second embodiment of this invention, if an access point is "the area a", the "area a" area original event information can also be seen. If the contents files ("FILE-b1", "FILE-b2", "FILE-b3", etc.) which make a country local area ("the area a", "area b", etc.), and correspond are made into the contents of commodity specification suitable for the situation of what was described by the official language of the country, or its country, The user can see information in the language of his own country, and can

see the merchandise information of specification suitable for his own country. If it says from the viewpoint by the side of an information provider, the information provider cannot provide a user with uniform information, but can provide the information for which it was suitable according to the local area of a user's access point, and can raise an information service level. According to a second embodiment, since the access point is pinpointed using the position detecting device (CPS) 5200, as compared with a first embodiment, informational service for every finer local area can be carried out. Since the place of a movement destination can always be pinpointed also to a MOBA yl user, information suitable for the moving place can be provided. It not only can change information content provided from there to one URL access by changing the next link destination in different information content provided for every user, but the information which can be hauled in one after another from there is changeable. As mentioned above, according to this invention, it is froot.. The ** ME side can provide the fine information according to the user's access point, and the user can enjoy the fine information service.

[0030]A third embodiment is described using drawing 13 from drawing 9. Although the access point (place) of the information retrieval client terminal 1100 is made into the selection condition of information content in the first and a second embodiment, A third embodiment is made to make a selection condition information retrieval client terminal 1100 user's attribute, for example, the language used every day, a favorite news genre, a date of birth, etc. The portion which memorizes a user's attribute to the information retrieval client terminal 1100 is provided, The offer-of-information server system 1000 is a gestalt which will acquire an access person's (user) attribute if there is an access request from the information retrieval client terminal 1100, responds to the attribute, and chooses and provides information content.

[0031]Drawing 9 shows the third whole embodiment system configuration. The point that the difference with drawing 2 in which a first embodiment was shown changed the composition of the information retrieval client terminal 1100, They are the point of having abandoned the selection condition table 2010 from the offer-of-information server system 1000, and having newly formed the attribute selection table 9010 and the contents selection table group 9020, and the point of having changed the process flow of the information selection processing part 2000 by two above-mentioned change. The function of each portion of others which constitute the offer-of-information server system 1000 is the same as what was explained by a first embodiment using drawing 2.

[0032]The attribute selection table 9010 is a table which matches the attribute item and the contents selection table 9020 used as demand URL from the information retrieval client terminal 1100, and the selection condition of information content. The contents selection table 9020 is a table which matches the information contents file 2040 with which the value and the information retrieval client terminal 1100 of an attribute should be provided. Two or more these tables 9020 exist, and the storage parts store 2050 performs the access control. The composition of the attribute selection table 9010 and the contents selection table 9020 is later mentioned using drawing 11 and drawing 12, respectively. Data setting to both the tables 9010-9020 is performed via the input processing part 2060.

[0033]The information retrieval client terminal 1100 in a third embodiment consists of the communication processing part 5102, the information retrieval client treating part 5100, the attribution information notification processing part 9100, the attribute table 9110, and the input output processing section 9120. The communication processing part 5102 and the information retrieval client treating part 5100 are the same as the explanation of a second embodiment using drawing 5. The attribute table 9110 is a table which stores information retrieval client terminal 1100 user's attribution information, and mentions the composition later using drawing 10. The attribution information notification processing part 9100 is a treating part which searches the attribute table 9110 and notifies an attribute value to the offer-of-information server system 1000 to an inquiry of the attribution information from the offer-of-information server system 1000. The process flow of this treating part 9100 is described while explaining a whole process flow using drawing 13. The input output processing section 9120 performs data setting processing to the attribute table 9110.

[0034]Drawing 10 shows the composition of the attribute table 9110 which is a component of the information retrieval client terminal 1100. This table 9110 consists of two or more records 10000, and constitutes each record 1000 from the attribute item storage 10010 and the attribute value

storage 10020. It is a portion in which the attribute item storage 10010 stores an attribute item name in, and the attribute value storage 10020 stores an attribute value. An attribute item name and the attribute value need to carry out a common agreement by the offer-of-information server system 1000 and information retrieval client terminal 1100 side. For example, if it is a language used every day as an attribute item, as "Language" and an attribute value, as for an attribute item name, Japanese will decide "Japanese" and German to be "German" etc. According to a third embodiment, there shall be an agreement about the above-mentioned language as an example, and the attribute item name concerning "News_genre" and a date of birth in the attribute item name about a favorite news genre is made into "Birthday". The example of the contents of a table shown in drawing 10 shows that the language (attribute item name "Language") which the user of the information retrieval client terminal 1100 uses every day is Japanese (attribute value "Japanese").

[0035] Drawing 11 shows the composition of the attribute selection table 9010 which is a component of the offer-of-information server system 1000. This table 9010 consists of two or more records 11000, and constitutes each record 11000 from the URL storage 11010, the attribute item storage 11020, and the contents selection table name storage 11030. The URL storage 11010 is a portion which stores URL used as the object which changes information content with which the information retrieval client terminal 1100 is provided according to an attribute. The attribute item storage 11020 is a portion which stores the attribute item name which is a selection condition. The contents selection table name storage 11030 is a portion which stores the table name of the contents selection table 9020 which matches the information contents file 2040 with which an attribute value and the information retrieval client terminal 1100 should be provided. The place where this table 9010 means the first record 11000 of this table 9010 for an example is explained. The information-content selection condition of URL "URL-C" is a "Language" attribute, It means that the table name of the contents selection table 9020 showing the value of a "Language" attribute, the information contents file 2040 which should be provided, and correspondence relations is "TABLE-C".

[0036] Drawing 12 shows the composition of the contents selection table 9020 which is a component of the offer-of-information server system 1000. This table 9020 consists of two or more records 12000, and consists of the attribute value storage 12020 and the file name storage 12020. The attribute value storage 12010 is a portion which stores an attribute value, and the file name storage 12020 is a portion which stores the file name of the information contents file 2040 which should be provided. The default record 12000 is set up on this table 9020. The default record 12000 is the record 12000 in which "default" is set to the attribute value storage 12010. How to use a default record is the same as how to use when a first embodiment explains the selection condition table 2010 using drawing 3. The place where this table 9020 means for an example the contents of a table shown in drawing 12 is explained. If an attribute value is "Japanese", the information contents file 2040 of file name "FILE-c1", If an attribute value is "German", the information contents file 2040 of file name "FILE-c2", If it is other attribute values, it means being information content which provides the information retrieval client terminal 1100 with the information contents file 2040 of "FILE-c3." The contents of a table shown in drawing 12 describe a third embodiment below as what showed the contents of the contents selection table 9020 which is table name "TABLE-C".

[0037] The place meant on a series of tables 9010-9020 is arranged from the relation of each table 9010-9020 explained with drawing 11 and drawing 12. When demand URL from the information retrieval client terminal 1100 is [the value of "URL-C" and attribute item "Language"] "Japanese", the information retrieval client terminal 1100 will be provided with information content of "FILE-c1" for a file name.

[0038] Drawing 13 shows the third whole embodiment process flow centering on the information selection processing part 2000. It is the point that the step groups processed when judged with the difference with the process flow in a first embodiment shown by drawing 4 being entered by the point that the tables made into the retrieval object in the entry decision processing of Step 4301 differ, and this decision processing (Step 4301) differ. Specifically, the process step groups [in / for the determination step 4301 in drawing 4 / to Step 13010 / drawing 4] 4310-4400, 4311, and 4312 are changed into the step groups 13020, 13030, 13100, 13110, 13040, and 13050. Other processing steps are the same process flow as a first embodiment shown by drawing 4, and the

contents of processing. Hereafter, the changed processing step is explained.

[0039]the information selection processing part 2000 -- the offer-of-information treating part 2020 to a requiring agency address, and demand URL -- receiving (Step 4300) -- it is judged whether the URL storage 11010 of the attribute selection table 9010 is searched, and there is any entry of demand URL (Step 13010). When judged with not being entered, the step performed next is Step 4320 and performs the same processing step as a first embodiment shown by drawing 4 after this step 4320. When judged with there being an entry at Step 13010, The contents selection table name storage 11030 to an attribute item name and a contents selection table name are searched with Step 13020 from the attribute item storage 11020 of the record 11000 in which demand URL is stored in the URL storage 11010 of the attribute selection table 9010. The value of the attribute item searched with the following step 13030 is asked to the attribution information notification processing part 9100 of the offer-of-information client terminal 1100 of a requiring agency. The attribution information notification processing part 9100 will search the value of the attribute item which had the inquiry from the attribute table 9110, if the attribute value inquiry from the information selection processing part 2000 is received (Step 13100). In this searching step 13100, when the record 10000 applicable to an attribute item with an inquiry does not exist, let attribute value "default" be search results (when the attribute item concerned is not entered by the attribute table 9110). a step -- the searched attribute value is notified to the information selection processing part 2000 of the offer-of-information server system 1000 which is inquiry origin after [13100] (Step 13110). The information selection processing part 2000 receives the attribute value asked from the attribution information notification processing part 9100 (Step 13040). Next, the information selection processing part 2000 searches the file name of the information contents file 2040 on condition of an attribute value from the contents selection table 9020 of a contents selection table name searched with Step 13020 (Step 13050). The file name stored in the file name storage 12020 of the record 12000 in which the attribute value received at Step 13040 is specifically stored in the attribute value storage 12010 of the contents selection table 9020 is searched. In this step 13050, when there is no entry of an applicable attribute value, let the file name stored in the file name storage 12020 of the default record 12000 (record 12000 in which "default" is stored in the attribute value storage 12010) be search results. The following step of Step 13050 is Step 4313, and the processing step after this step 4313 is the same as the processing step in a first embodiment shown in drawing 4.

[0040]In the above, a third embodiment was described using drawing 13 from drawing 9. An example of the usage pattern of this invention in a third embodiment is explained taking the case of the contents of a table shown in drawing 10, drawing 11, and drawing 12. It assumes that an information provider provides merchandise information with the offer-of-information server system 1000 like the time of explaining the example of a usage pattern in a first embodiment. URL of this merchandise information is made into "URL-C". An information provider creates to "FILE-c3" the contents which described to "FILE-c2" the contents which described to "FILE-c1" the contents which described merchandise information in Japanese in German in English, and stores in the offer-of-information server system 1000. It is assumed that the contents of a table shown in drawing 10 are set to a user's information retrieval client terminal 1100. According to a third embodiment, when information retrieval client terminal 1000 user accesses this merchandise information, information content described in the contents, i.e., the Japanese, of "FILE-c1" will be seen. A user takes an official trip to Germany, and assumes accessing this merchandise information from the information retrieval client terminal 1100 with "de domain" here. For a start, in a second embodiment, a user will look at information content described in German. On the other hand, if the contents of a table which were shown in drawing 10 at the information retrieval client terminal 1100 according to a third embodiment are set up, it cannot call at a place but information content of Japanese description can be seen. Thus, for a start, a second embodiment makes the selection condition the feature of user individuals, such as a favorite news genre, a date of birth besides language, etc. which a user uses every day, by a third embodiment, although the selection condition of information content was a place (access point). If a favorite news genre is taken for an example, for a certain user, a sport is liking, and supposing the general news page is liking, a certain user. The information provider can provide the user whose sport is liking with information content to which the general news page was substantial to the user of liking [the general news page] in information content in which the sports page was substantial, and the user can see

favorite information now in more detail. It not only can change information content provided from there to one URL access by changing the next link destination in different information content provided for every user, but the information which can be hauled in one after another from there is changeable.

[0041]As mentioned above, according to this invention, the information provider can provide the fine information according to the personality of one of users, and the user can enjoy the fine information service.

[0042]Hereafter, the embodiment of others of this invention is described.

[0043]In a third embodiment, although the information selection condition is made into one attribute item, it can also make two or more attribute items a selection condition. This becomes feasible by performing the following change. First, two or more attribute item storages 11020 of the attribute selection table 9010 of drawing 11 and attribute value storages 12010 of the contents selection table 9020 of drawing 12 are formed. The row of the information stored in the provided storages 11020 and 12010 is made the same. Namely, when a "Language" attribute item is stored in the Nth attribute item storage 11020 of the attribute selection table 9010, The attribute values ("Japanese", "German", etc.) of a "Language" attribute item are stored in the Nth attribute value storage 12010 of the contents selection table 9020. This is the retrieval processing in Step 13050 of drawing 13, and it is for the attribute value received from the attribution information notification processing part 9100 understanding two or more which of the attribute value storage 12010 and matching should be taken. [in the contents selection table 9020] The processing steps 13020, 13030, 13100, 13110, 13040, and 13050 shown in drawing 13 are changed so that it may correspond to search and an inquiry response of two or more attribute items and its attribute value. By the above change, it becomes possible to make two or more attribute items into a selection condition, and a finer information service can be realized.

[0044]The conditions for choosing information content shown in drawing 11 and drawing 12 in the modification gestalt of a third embodiment of the above, It becomes possible to define more complicated conditions by plodder KUSHONRU (IF-THEN rule) used with the expert system etc. describing, and constituting processing of Step 13050 of drawing 13 from an inference processing part realized with the expert system etc. Setting out of a selection condition and a maintenance become easy.

[0045]A place (access point) is set to one of the attribute items which are a selection condition in a third embodiment. If place information constitutes the offer-of-information server system 1000 and the information retrieval client terminal 1100 so that it may acquire by the method explained by the first or a second embodiment, it can take the embodiment which compounded second and third embodiments for a start. By taking a compound embodiment, the information doubled with the HASO nullity of a user's access point and a user can be provided finely.

[0046]For a start, eventually, second and third embodiments will provide the information contents file 2040 stored in the offer-of-information server system 1000 as it is. The editing process of information content is carried out according to the attribute of an access position (place) or a user, and this can be provided. The modification embodiment is described to an example for a third embodiment. First, one or more information-content editing processing parts are provided in the offer-of-information server system 1000. When providing more than one, it enables it to identify an information-content treating part uniquely like the information-content editing processing part A and the information-content editing processing part B. A processing name storage is provided in each record 12000 of the contents selection table 9020 shown in drawing 11. The names (the information-content editing processing part A, the information-content editing processing part B, etc.) of an information-content editing processing part are stored in this processing name storage. The place which the contents selection table 9020 changed in this way means, If an attribute value is "Japanese", it means that a file name carries out editing processing of the information contents file 2040 of "FILE-c1" by the information-content editing processing part of the name stored in the processing name storage, and transmits it to the request-origin-information retrieval client terminal 1100. The information selection processing part 2000 of drawing 13 is changed as follows. It changes so that a processing name may also be searched with Step 13050 from the contents selection table 9020. In Step 4313, it changes so that the information-content editing processing part of the processing name searched with Step 13050 which changed the information contents file 2040 may be passed and the editing processing result may be passed to the following step

4202. By the above change, according to a user's attribute, the editing process of information content is carried out, and it can be provided. By this modification embodiment, a finer information service can be carried out and there is also a reduction effect of the data volume of information content. For example, offer of news information is assumed. The printing composition of news is changed according to a user's liking (so that a sport report may come for the user of liking [a sport report] to a head). If it is going to change printing composition of news so that the general news page may come for the user of liking [the general news page] to a head, in a third embodiment, information content of each printing composition must be created and it must store in the offer-of-information server system 1000. According to the changed embodiment, the processing which carries out sorting of the report is provided in an information-content editing processing part, and since one may be sufficient as 2 I **** and information content to store, they can aim at reduction of the data volume of information content to store.

[0047] Although an above embodiment has been described taking the case of a WWW system, it is applicable to other network services, such as FTP service and auto loess ponding service (informational service of an electronic mail base) of an electronic mail base.

[0048] This invention is applicable also to the program distribution on a network. An attribute item is used with the environment of a user's computer (information retrieval client terminal 1100), for example, the version information of OS, etc., by a third embodiment, and the information contents file 2040 is considered as a program. The processing which showed the information contents file 2040 by the information retrieval client treating part 5100 is abandoned, and the program transmitted is changed into the processing stored in memory storage, or the processing installed automatically. Distribution of the program of the version which was automatically suitable for the user's computer environment can be received only by specifying a program to install by the above change.

[0049]

[Effect of the Invention] Since this invention is constituted as mentioned above and functions, in the informational service using an information-and-telecommunications network, the information provider can provide the new service which chooses and distributes information content which was suitable according to a user's accessing place and attribution information. Thereby, an information provider's service level to a user improves. The user can obtain easily required information and the information on language description which can carry out information and an understanding to see.

[Translation done.]

* NOTICES *

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- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]It is a figure explaining the contents of this invention seen from the user.

[Drawing 2]It is a whole system configuration figure in a first embodiment of this invention.

[Drawing 3]It is a lineblock diagram of the selection condition table in drawing 2.

[Drawing 4]It is a whole process flow figure in a first embodiment.

[Drawing 5]It is a whole system configuration figure in a second embodiment of this invention.

[Drawing 6]It is a lineblock diagram of the selection condition table in drawing 5.

[Drawing 7]It is a lineblock diagram of the local area mapping table in drawing 5.

[Drawing 8]It is a whole process flow figure in a second embodiment.

[Drawing 9]It is a whole system configuration figure in a third embodiment of this invention.

[Drawing 10]It is a lineblock diagram of the attribute table in drawing 9.

[Drawing 11]It is a lineblock diagram of the attribute selection table in drawing 9.

[Drawing 12]It is a lineblock diagram of the contents selection table in drawing 9.

[Drawing 13]It is a whole process flow figure in a third embodiment.

[Description of Notations]

1000 -- An offer-of-information server system, 1100 -- Information retrieval client terminal, 1200

-- A network and 2000 -- An information selection processing part, 2010 -- Selection condition

table, 2040 [-- A local area mapping table, 9010 / -- An attribute selection table, 9020 / -- A

contents selection table and 9100 / -- An attribution information notification processing part,

9110 / -- Attribute table.] -- An information contents file, 5101 -- A position information

notification processing part and 5200 -- A position detecting device, 5300

[Translation done.]